APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290042-8

(NY-1528)

Spectroscopic Investigation of High Frequency Electric Discharges in Gases and Flames at Atmospheric Pressure, by V. S. Rossikhin, I. . L. Tsikora, 10 pp. UNCLASSIFIED

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US JPRS/NY-L-78

Sci - Chem
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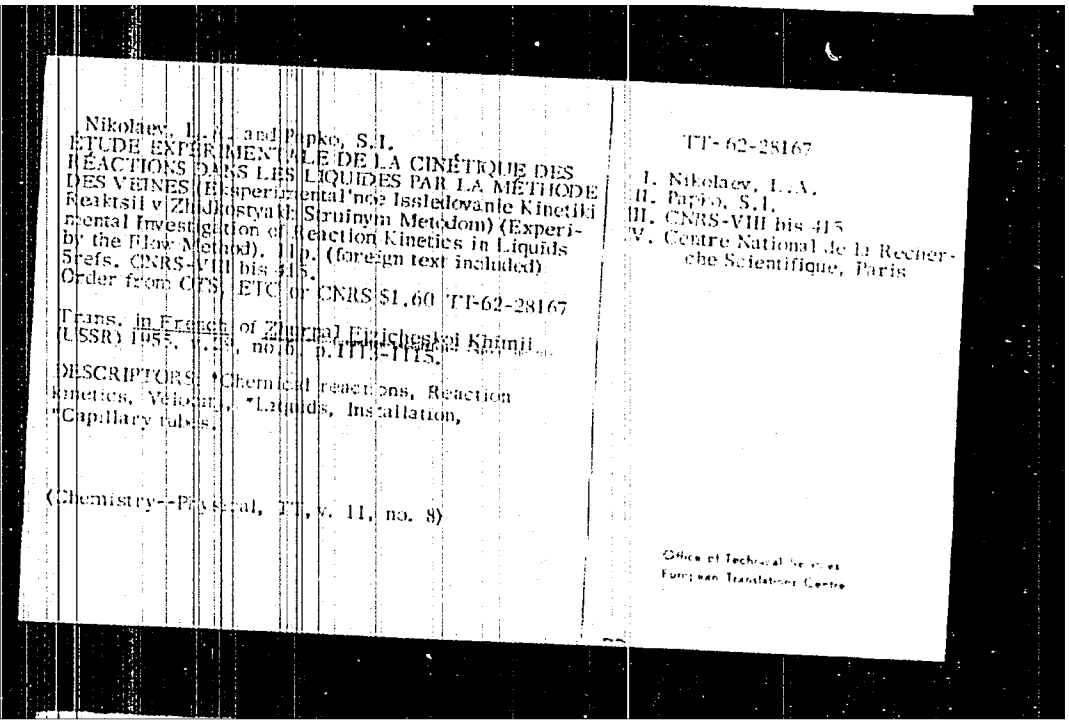

Nikolaev, L. A. and Papko, S.I.
ÉTUDE EXPÉRIMENTALE DE LA CINÉTIQUE DES RÉACTIONS DANS LES LIQUIDES PAR LA MÉTHODE DES VEINES (Eksperimental'noe Issledovanie Kinetiki Reaktsii v Zhidkostyakh Struinym Metodom) (Experimental Investigation of Reaction Kinetics in Liquids by the Flow Method). 11p. (foreign text included)
5refs. CNRS-VIII bis 415.
Order from CTS, ETC or CNRS $1.60 TT-62-28167

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1955, v.29, no.6, p.1171-1175.

DESCRIPTORS: *Chemical reactions, Reaction kinetics, Velocity, *Liquids, Installation, *Capillary tubes.

(Chemistry--Physical, TT, v. 11, no. 8)

TT-62-28167

I. Nikolaev, L.A.
II. Papko, S.I.
III. CNRS-VIII bis 415
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
Foreign Translations Center

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Electroconductivity of Crystals of Polycyclic Compounds and Other Organic Non-Conductors. II. by N. V. Fil, 11 pp.

RUSSIAN, par, Zhur Fiz Khim, Vol XXIX, No 7, 1955, pp 1152-1161.

ATS-72L36R

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Pavlyuchenko, M. M. and Vaynshteyn, Ye. N.
THE KINETICS OF THE DECOMPOSITION OF POTASSIUM BICARBONATE (Kinetika Razlozheniya Bikarbonata Kaliya). Jan 61 [12]p. 18 refs. RTS 1738. Order from LC or SLA mi$2.40, ph$3.30 61-15386

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1955, v. 29, no. 7, p. 1173-1180.

The kinetics of decomposition of potassium bicarbonate in the temperature range 158-214°C have been studied. The rate of the decomposition increases to a maximum and then diminishes to zero. The reaction commences at separate centres, then rapidly spreads over the surface, covering it with solid product in 5-10 min. Increasing the geometrical surface more than 50 times has practically no effect on the reaction rate; this is related to the large internal surface of the crystals. The activation energy of the decomposition of potassium bicarbonate is 15500 cal, which coincides, within the limits of experimental error (Chemistry--Physical, TT, v. 5, no. 7) (over)

61-15386

I. Potassium carbonates--Decomposition
I. Pavlyuchenko, M. M.
II. Vaynshteyn, Ye. N.
III. RTS 1738
IV. Department of Scientific and Industrial Research (Gt. Brit.)

148,745

Office of Technical Services

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The Determination From the Kinetic Data of the Reactionary Constant and of the Effective Diffusion Coefficient Inside a Porous Catalyst, by K. N. Bolonogov, B. I. Popov, 11 pp.

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CIA/FDD K-2736

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Lithium metaniobate and metatantalate,
by A. V. Lapitskiy, Yu. P. Simanov, 5 pp.

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AEC SCL-T-437

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RUSSIAN, per, Zhur Fiz Khimn Vol XXIX, 1955, pp 1221-1226.

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Electronographic Investigation of Polymers.
III Examination of the Change in Structure of
Crystalline and Amorphous Polymers With
Temperature, by V. A. Kargin, G. S. Markova.

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T.I.L. T-4645

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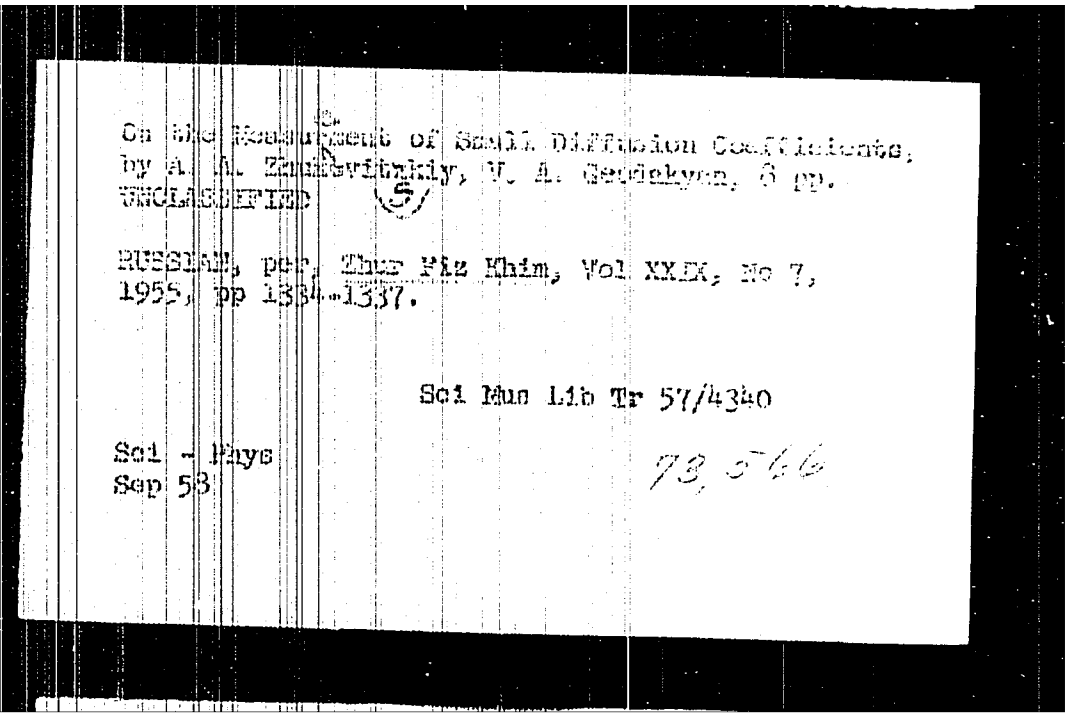

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AEC Tr-4359

Sci - Phys, Chem
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The Relationship Between Solubility and Relative Volatility, by V. B. Kogan.
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ATS-RJ-5840

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Sci - Chemistry, Physics 36,410

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Sci - Mineral/Metals, Physics 33,980
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Marinin, V. A.
COEFFICIENTS DE DIFFUSION DE QUELQUES CORPS DANS LES MÉLANGES GLYCÉRINE-EAU (Koeffitsient Diffuzii Nekotorykh Veshchestv v Smesi Glitserin-Voda) (Diffusion coefficients of some substances in glycerol alcohol mixtures). 10p (Foreign text included) 5 refs PB-2364.
Order from OTS, ETC or CNRS 40. 80 62-26422

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1955, v. 29, [no. 9] p. 1564-1568.

DESCRIPTORS: *Alcohols, *Glycerols, Mixtures, *Diffusion.

(Chemistry--Physical, TT, v. 10, no. 10)

62-26422

I. Marinin, V. A.
II. P/R-2364
III. Centre National de la Recherche Scientifique

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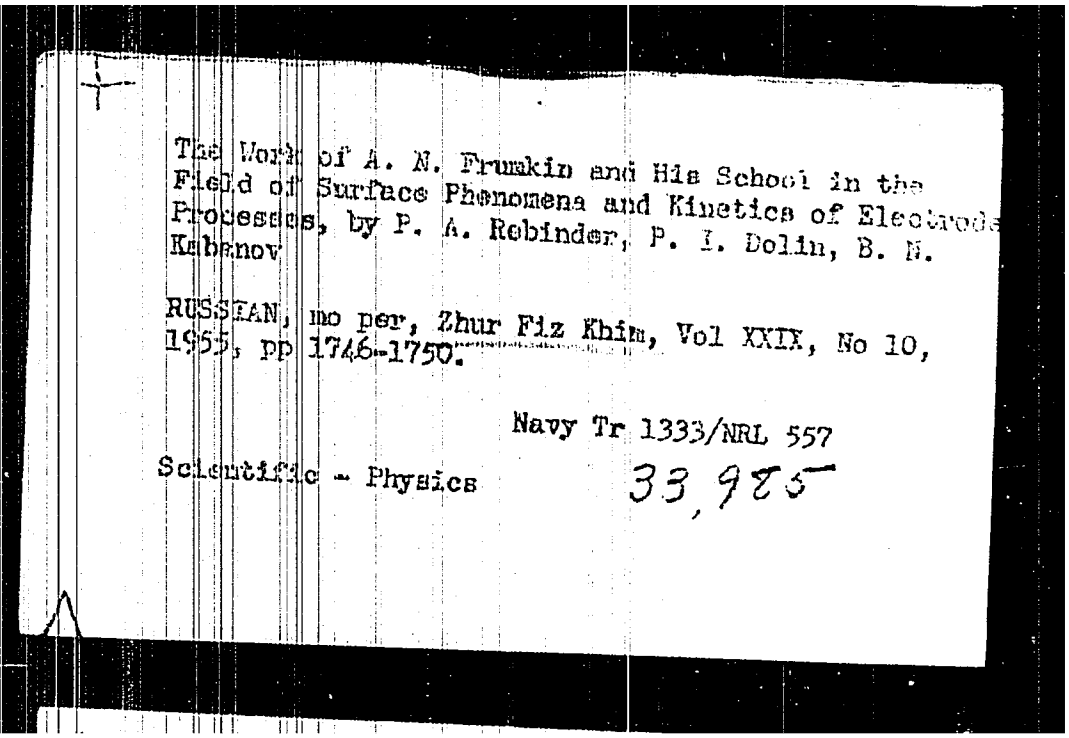

The Work of A. N. Frumkin and His School in the Field of Surface Phenomena and Kinetics of Electrode Processes, by P. A. Rebinder, P. I. Dolin, B. N. Kabanov

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Navy Tr 1333/NRL 557

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Investigations of the Surface Condensation and Adsorption of Vapors Near Saturation by the Optical Micropolarization Method. Part II, by B. V. Deryagin, Z. M. Zorin.

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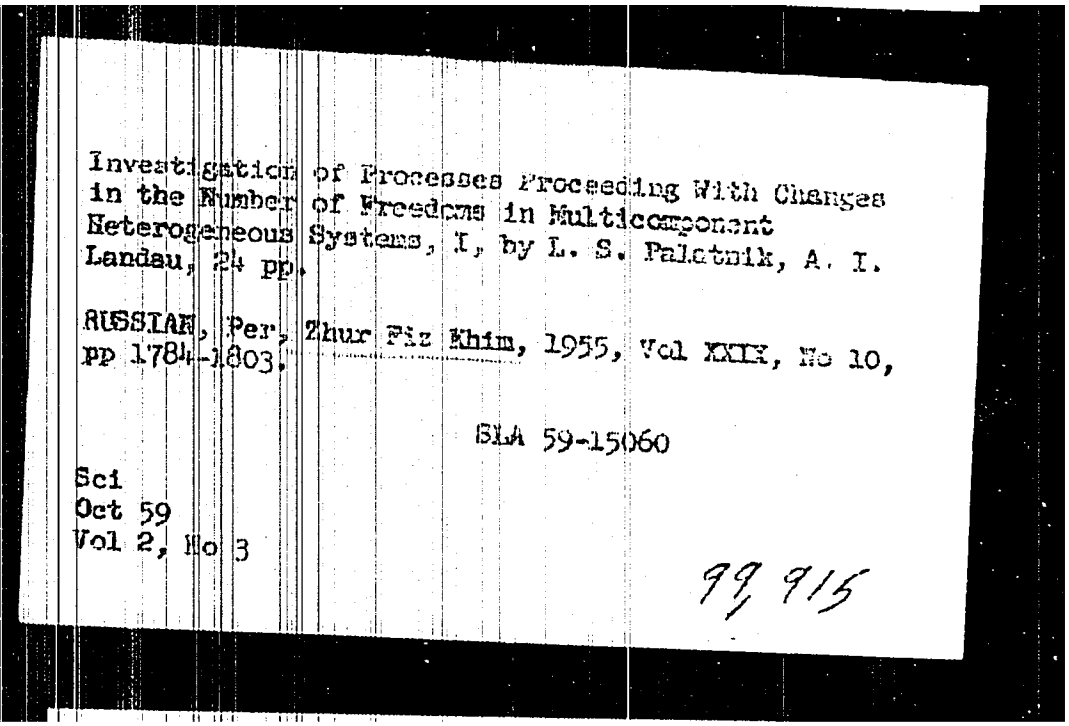

Investigation of Processes Proceeding With Changes in the Number of Freedoms in Multicomponent Heterogeneous Systems, I, by L. S. Palatnik, A. I. Landau, 24 pp.

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BLA 59-15060

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290042-8

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Floryanovich, G. M. and Frumkin, A. N.
THE MECHANISM OF ELECTROLYTIC REDUCTION OF ANIONS AT THE MERCURY ELECTRODE (O Mekhanisme Electrovosstanovleniya Anionov na Rtutnom Elektrode). Apr 61 [42]p. 39 refs. RTS1748. Order from OTS or SLA $4.60 61-19700

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1955, v. 29, no. 10, p. 1827-1846.

DESCRIPTORS: "Mercury electrodes, Electrolysis, Reduction, Ions, Electrodes, Polarization.

(Chemistry--Physical, TT, v. 6, no. 3)

61-19700

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II. Frumkin, A. N.
III. RTS-1748
IV. Department of Scientific and Industrial Research (Gt. Brit.)

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Kinetics of Dehydration of Ethanol and Ethyl Ether on Alumina and Aluminosilicate Catalysts, PT2@,
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No.10, pp. 1854-1865.
ATS-48R77R

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Sci - Phys, Chem
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A. D. Stepukhovich, E. I. Stingof, 20 pp. UNCL

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11 331 Fr-3

VASIL'EV S. S.

Kinetics of molecule excitation by electromagnetic and mechanical waves

Cinétique de l'excitation des molécules par ondes électromagnétiques et mécaniques

* Zhur. Fiz. Khim., 29, No. 11, 2018-2030 (1955)

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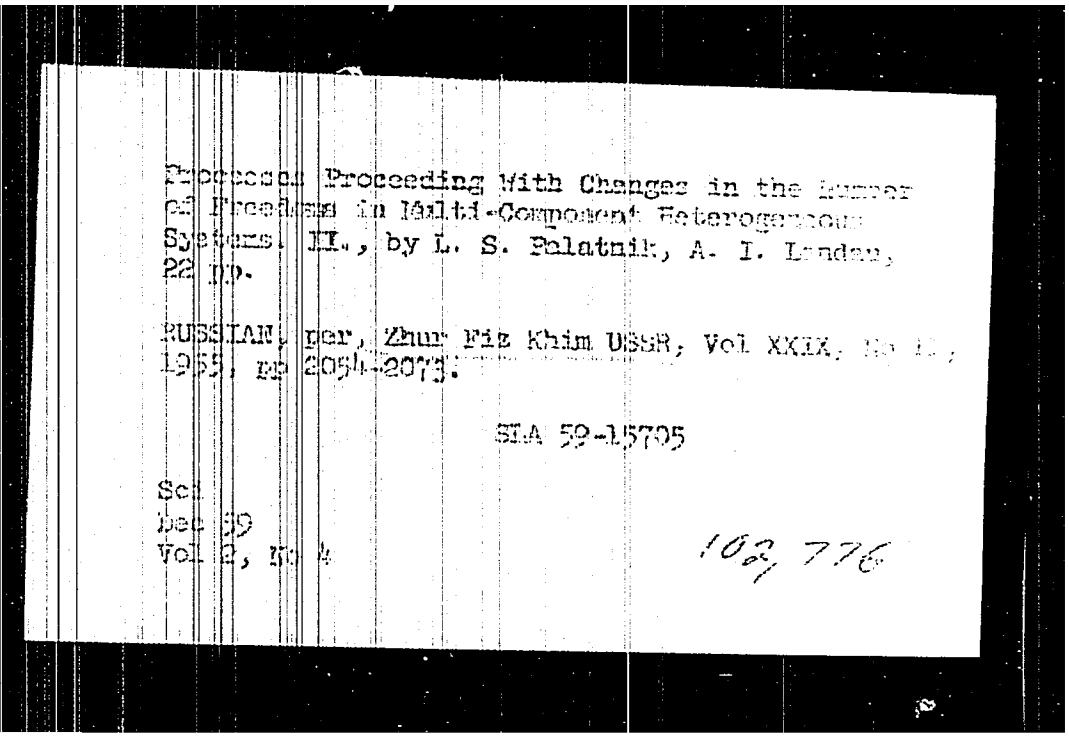

Processes Proceeding With Changes in the Number of Freedoms in Multi-Component Heterogeneous Systems. III., by L. S. Polatnik, A. I. Landau, 22 pp.

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SLA 59-15795

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The Theory of Color of the Organic Compounds, I.,
by B. I. Stepanov.

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pp 2173-2184.

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$75.00

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Scientific - Chemistry, Physics

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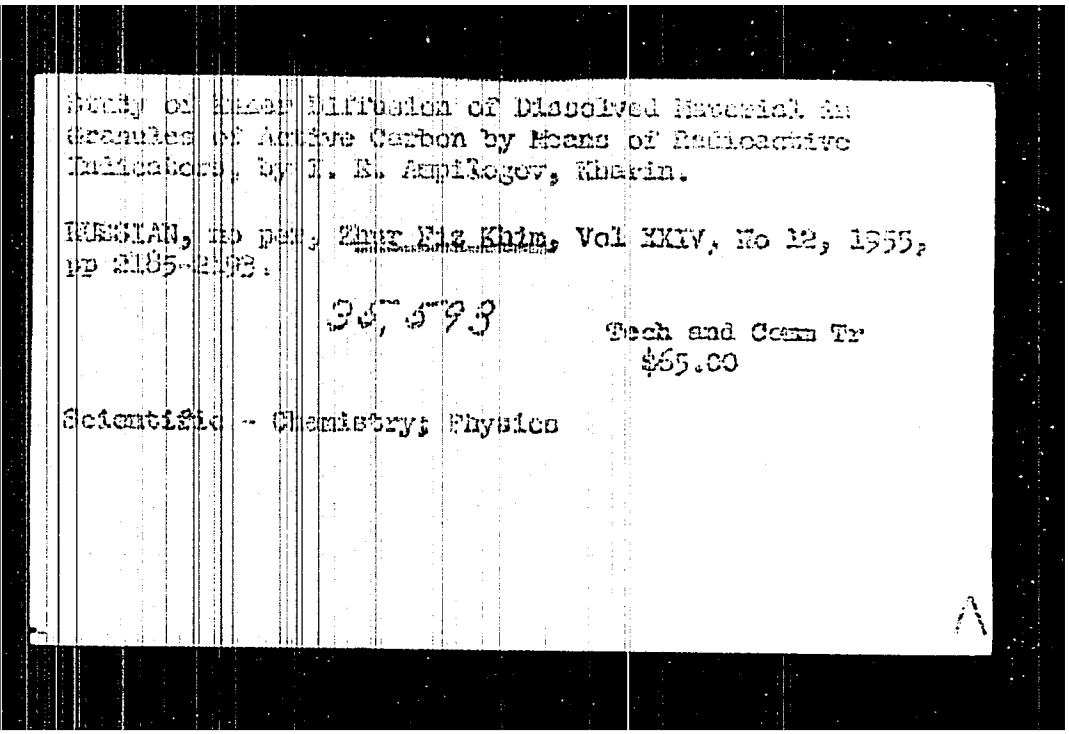

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Sci - Chemistry

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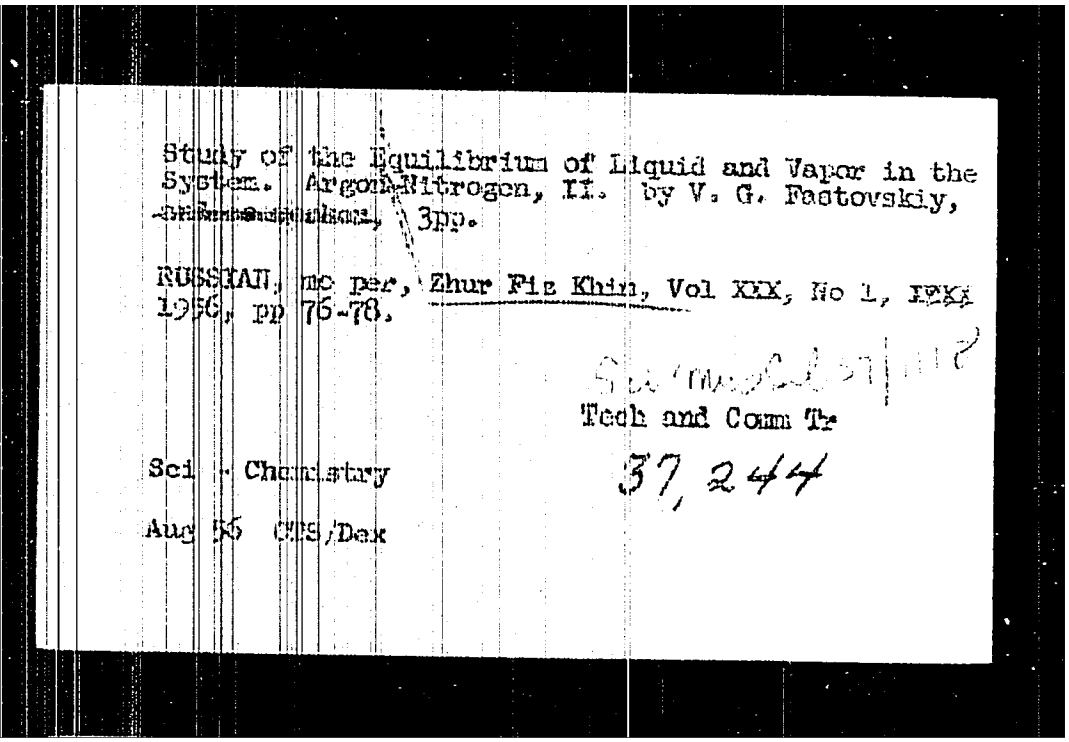

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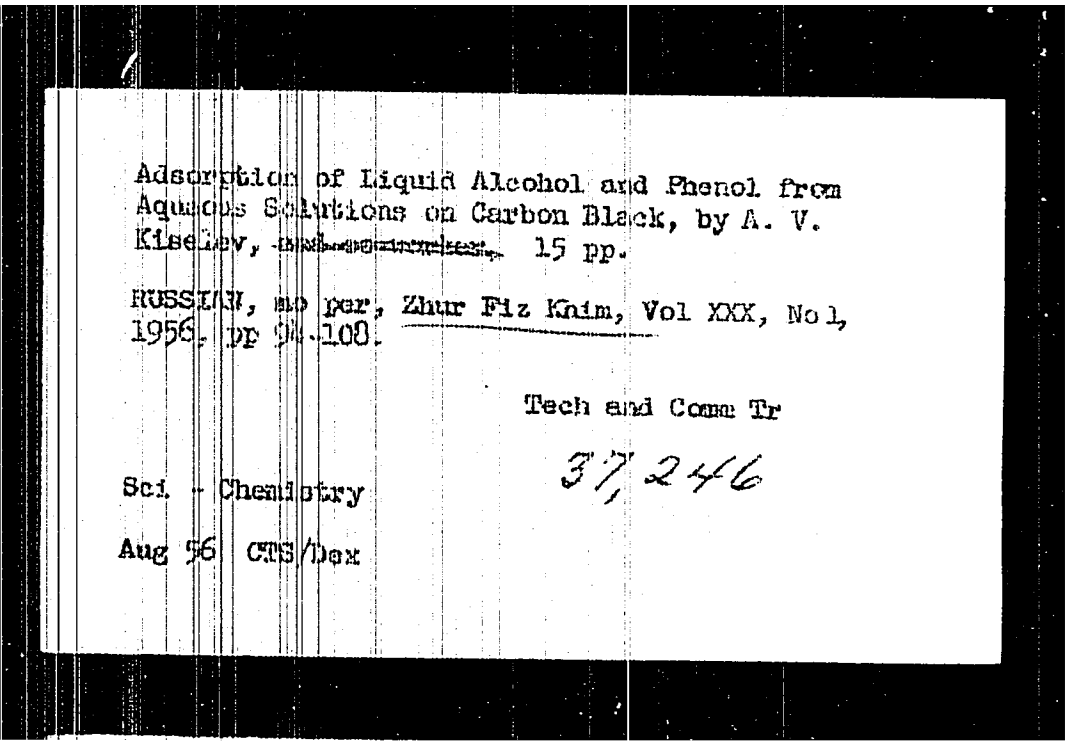

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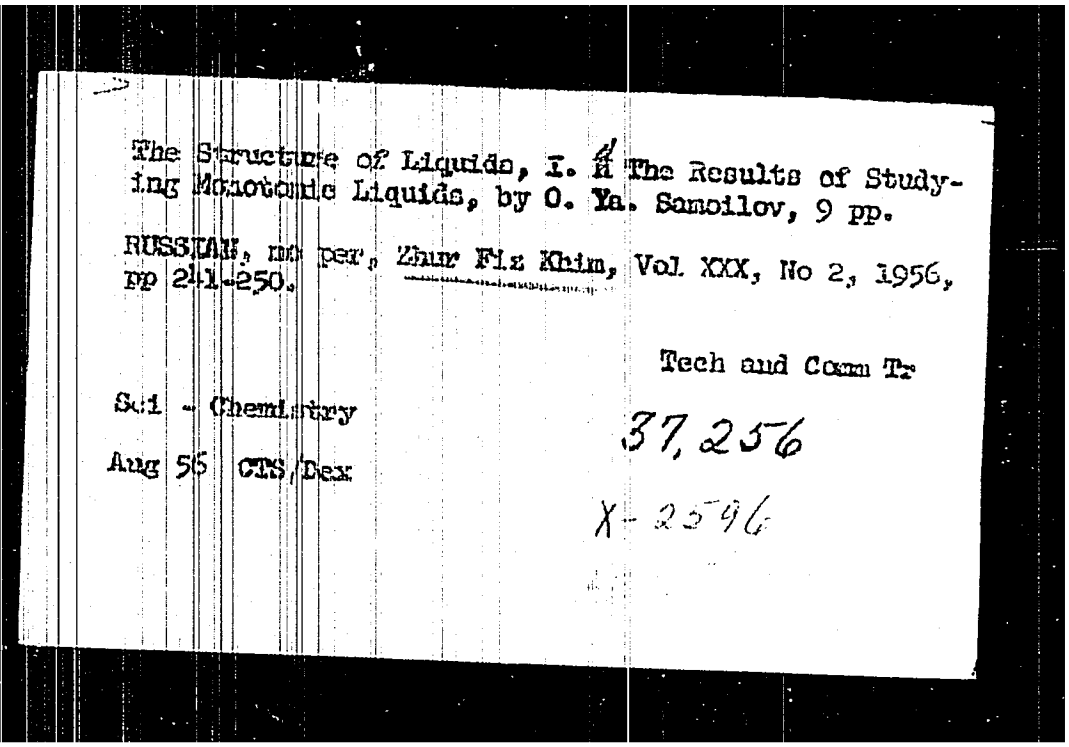

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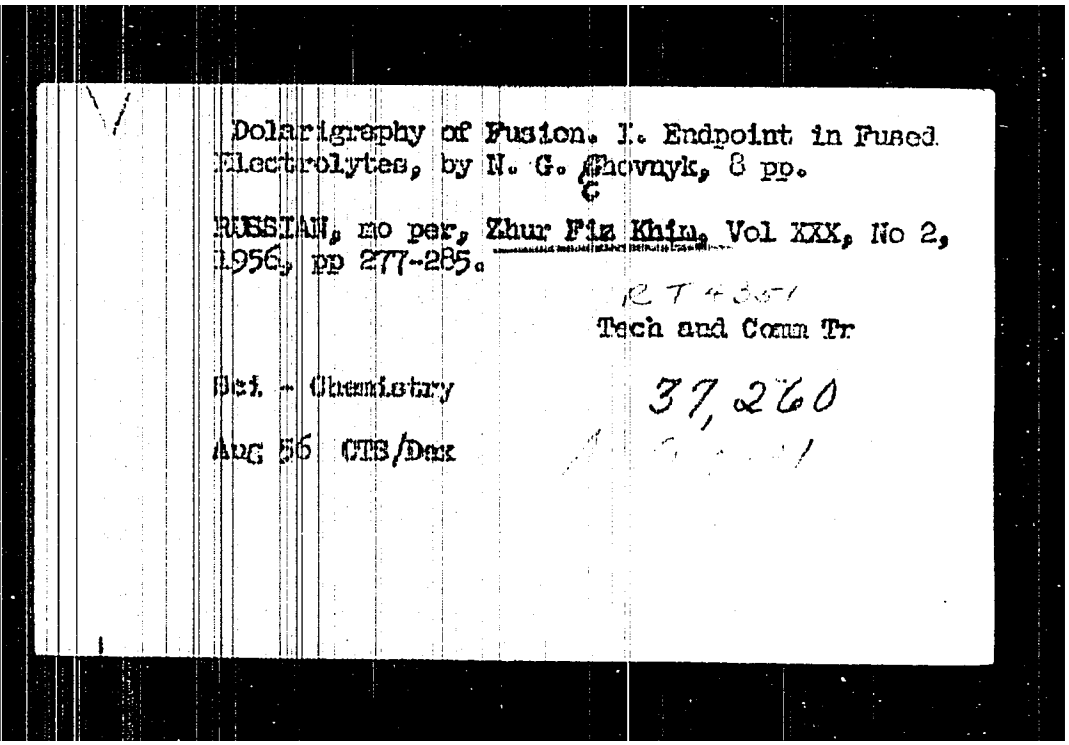

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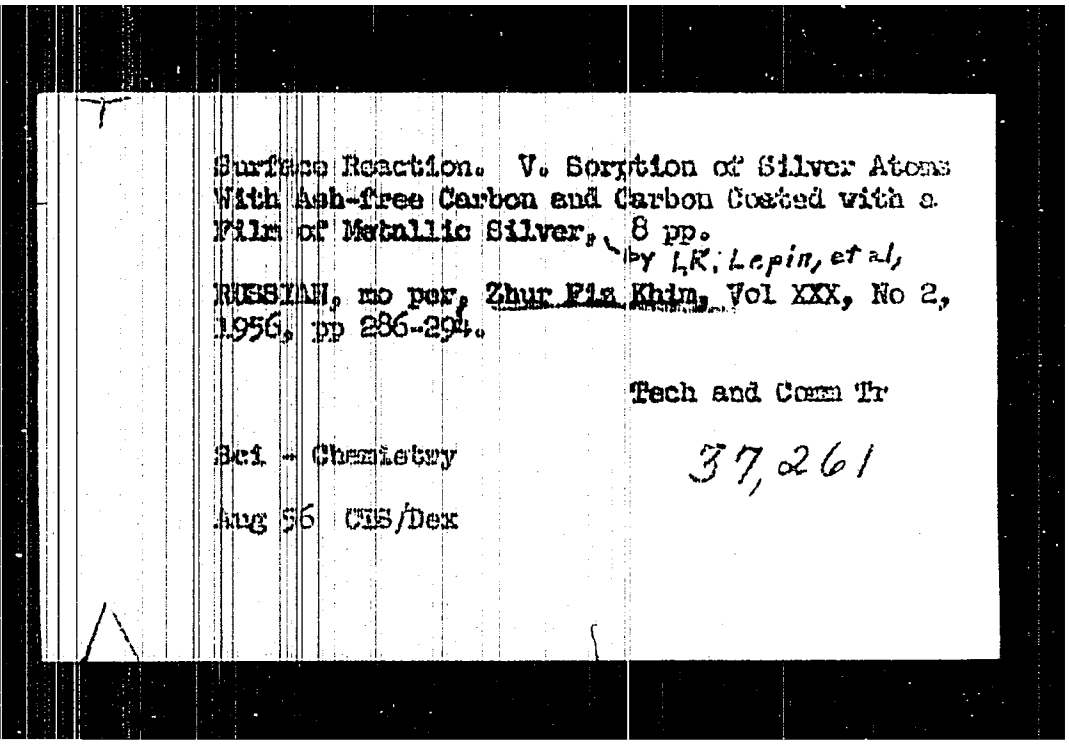

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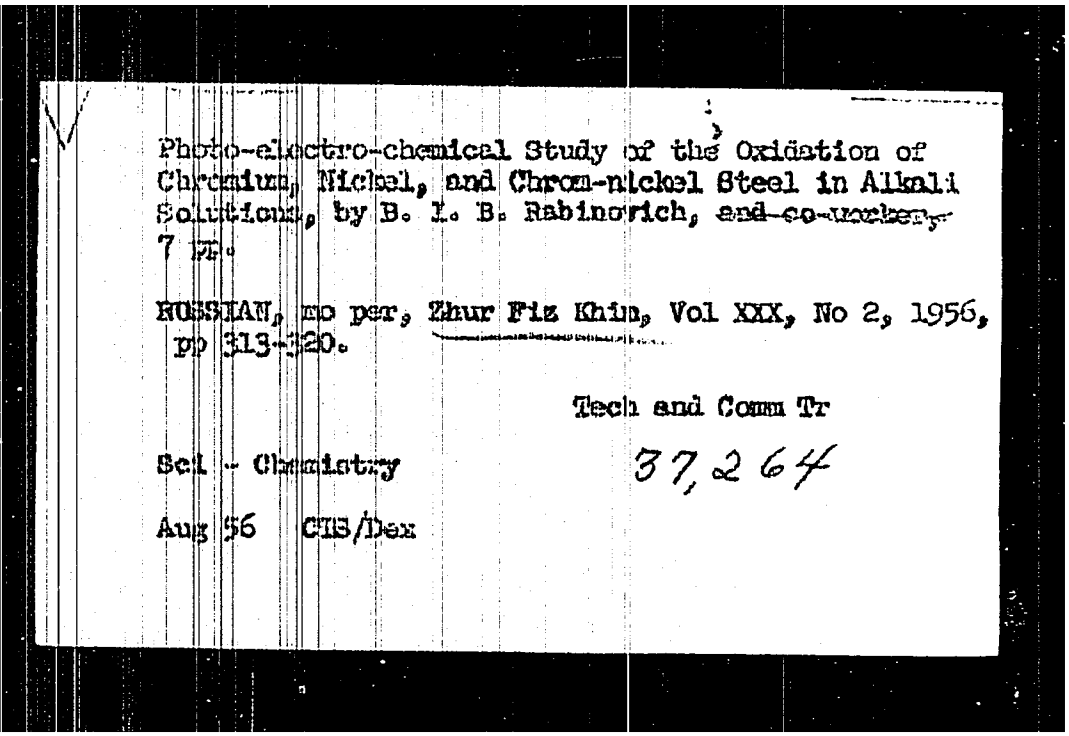

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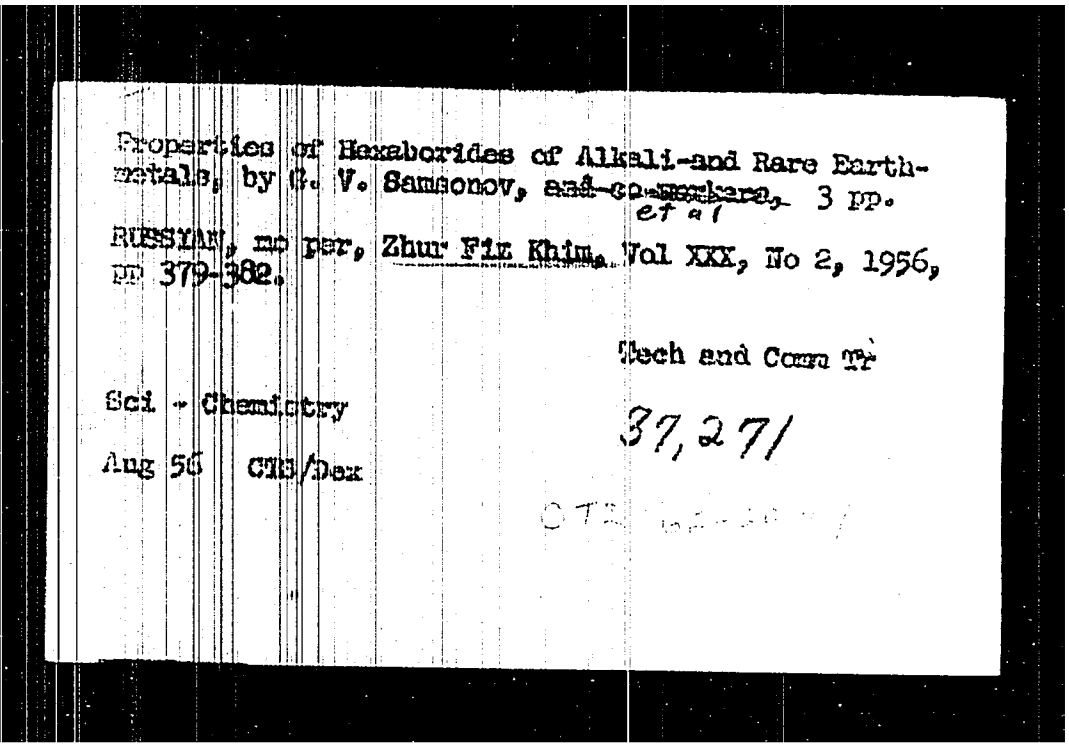

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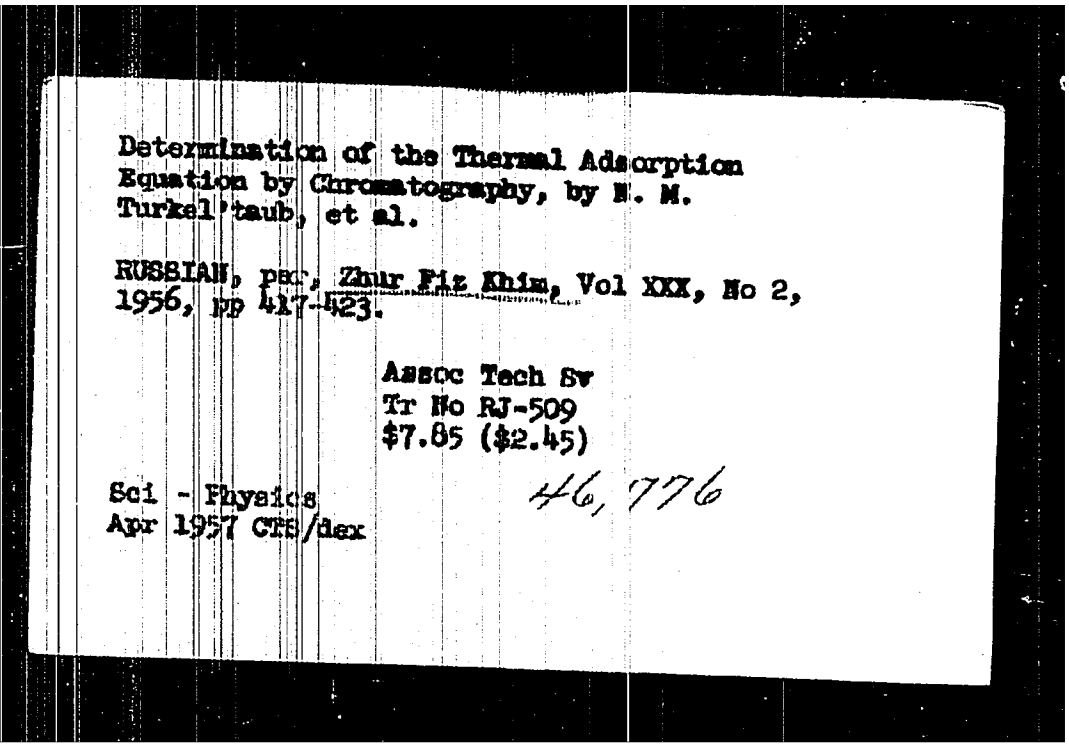

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